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**PATENT COOPERATION TREATY**

**PCT**

**INTERNATIONAL SEARCH REPORT**  
(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>100909-1 WO</b>	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. <b>PCT/SE 2003/002033</b>	International filing date (day/month/year) <b>19 December 2003</b>	(Earliest) Priority Date (day/month/year) <b>20 December 2002</b>
Applicant <b>ASTRAZENECA AB et al</b>		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report
  - a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
  - b.  With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.
2.  Certain claims were found unsearchable (see Box No. II)
3.  Unity of invention is lacking (see Box No. III)
4. With regard to the title,
  - the text is approved as submitted by the applicant.
  - the text has been established by this Authority to read as follows:  
  
Pyrazolo [3,4-d] pyrimidine derivates and their use in the treatment of H.pylori infection.
5. With regard to the abstract,
  - the text is approved as submitted by the applicant.
  - the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. With regard to the drawings,
  - a. the figure of the drawings to be published with the abstract is Figure No. \_\_\_\_\_
 as suggested by the applicant.
  - as selected by this Authority, because the applicant failed to suggest a figure.
  - as selected by this Authority, because this figure better characterizes the invention.
- b.  none of the figures is to be published with the abstract.

**INTERNATIONAL SEARCH REPORT**International application No.  
**PCT SE2003/002033****Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: **27-29**  
because they relate to subject matter not required to be searched by this Authority, namely:  
**see extra sheet**
2.  Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

**Remark on Protest**

- The additional search fees were accompanied by the applicant's protest.  
 No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**

International application No.  
**PCT SE2003/002033**

**Box II.1**

Claims 27-29 relate to methods of treatment of the human or animal body by surgery or by therapy/diagnostic methods practised on the human or animal body/Rule 39.1.(iv). Nevertheless, a search has been executed for these claims. The search has been based on the alleged effects of the compounds/compositions.

## INTERNATIONAL SEARCH REPORT

1

International application No.

PCT/SE 2003/002033

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7: C07D 487/04, A61K 31/519, A61P 1/04**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

**IPC7: C07D, A61K**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

**SE,DK,FI,NO classes as above**

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**WPI DATA, BIOSIS, CHEM.ABS.DATA**

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 03002567 A1 (ASTRAZENECA AB), 9 January 2003 (09.01.2003) --	1-30
A	WO 9006116 A2 (HENNING BERLIN GMBH), 14 June 1990 (14.06.1990) --	1-30
A	Arch Microbiol., Volume 168, 1997, George L. Mendz et al, "Purine metabolism and microaerophily of Helicobacter pylori", pages 448-456 -----	1-30

 Further documents are listed in the continuation of Box C. See patent family annex.

- \* Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search <b>9 March 2004</b>	Date of mailing of the international search report <b>10 -03- 2004</b>
Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Facsimile No. + 46 8 666 02 86	Authorized officer <b>CAROLINA GOMEZ LAGERLÖF/BS</b> Telephone No. + 46 8 782 25 00

Form PCT/ISA/210 (second sheet) (January 2004)

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

27/02/2004

International application No.

PCT/SE 2003/002033

WO	03002567	A1	09/01/2003	AU	9619001 A	15/05/2002
				EP	1339368 A	03/09/2003
				SE	0102315 D	00/00/0000

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WO	9006116	A2	14/06/1990	AT	85522 T	15/02/1993
				DE	3839839 A,C	31/05/1990
				DE	58903550 D	00/00/0000
				EP	0445156 A,B	11/09/1991
				SE	0445156 T3	
				ES	2054097 T	01/08/1994
				JP	2686566 B	08/12/1997
				JP	4502005 T	09/04/1992
				US	5484605 A	16/01/1996
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